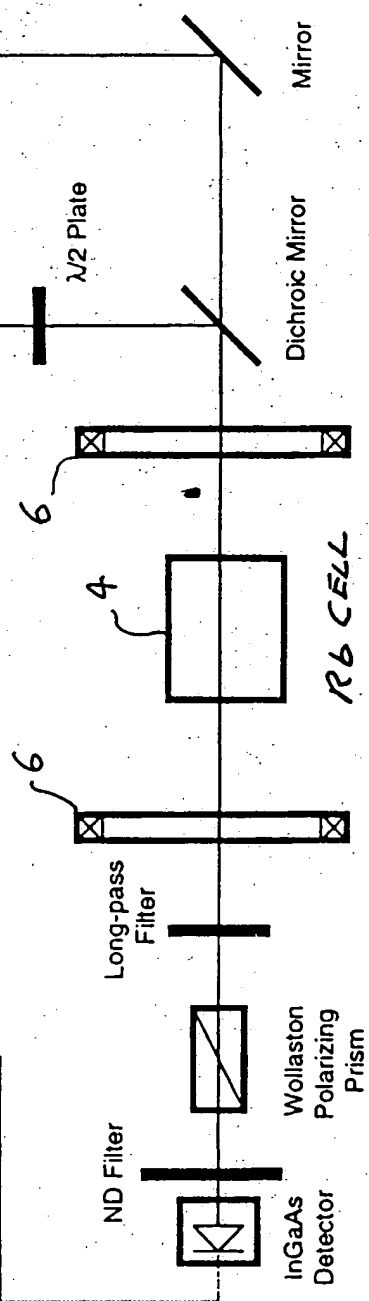
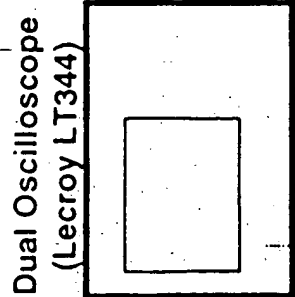


FIG. 1A

780nm PUMP LASER
 NEW FOCUS
 VORTEX 6013
 Tunable (1446-1557 nm)
 Characterization Laser
 (New Focus Velocity 6326)



Magnetic Ring (Dexter Perm Mag PP96-1213-1)

Magnetic Ring (Dexter Perm Mag PP96-1213-1)

FIG. 1B

Pump Laser Wavelength / Power: 852.112 nm ($6^2S_{1/2} - 6^2P_{3/2}$) / $\sim 10 \text{ W/cm}^2$
Cs Cell Temperature / Length: 120 C° / 1 cm
Magnetic Field: 80 Gauss

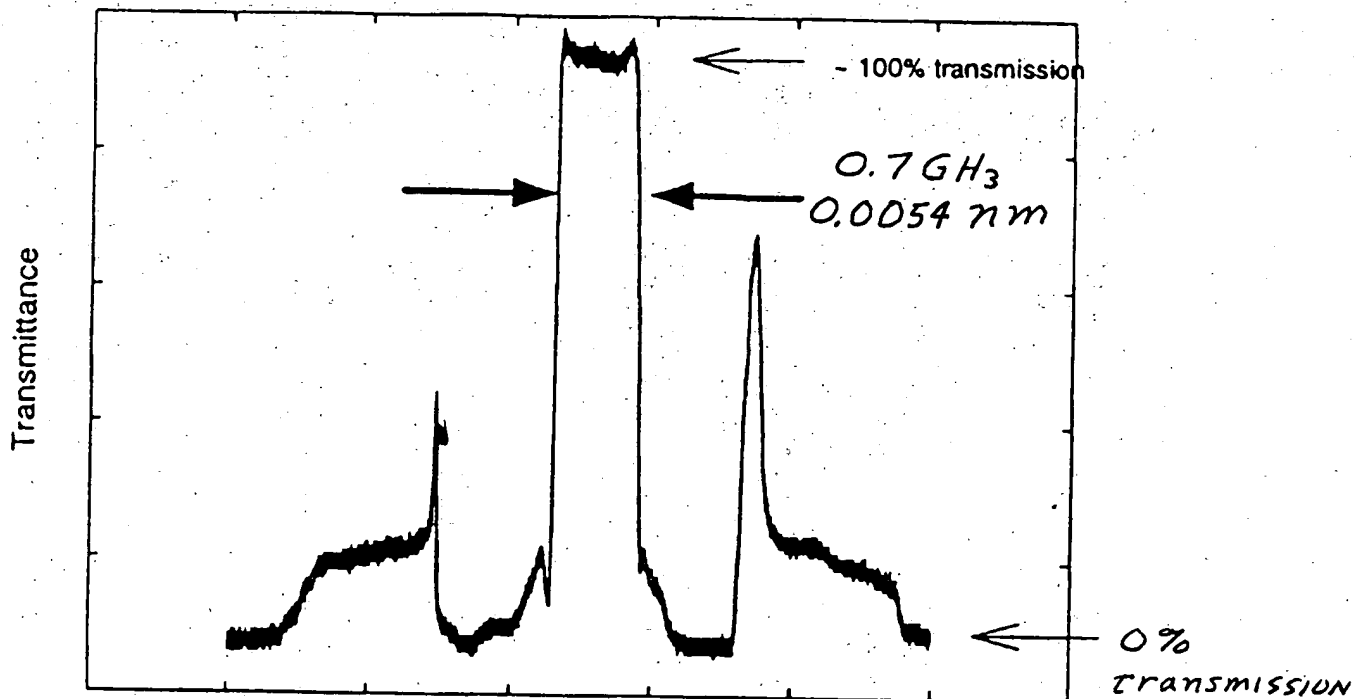
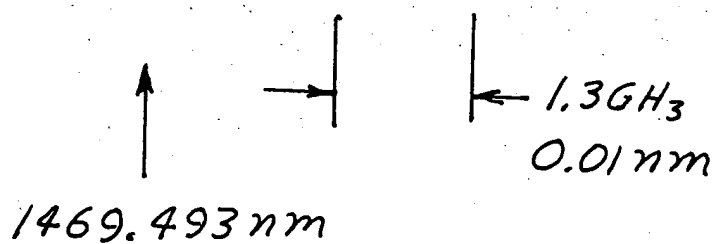


FIG. 2



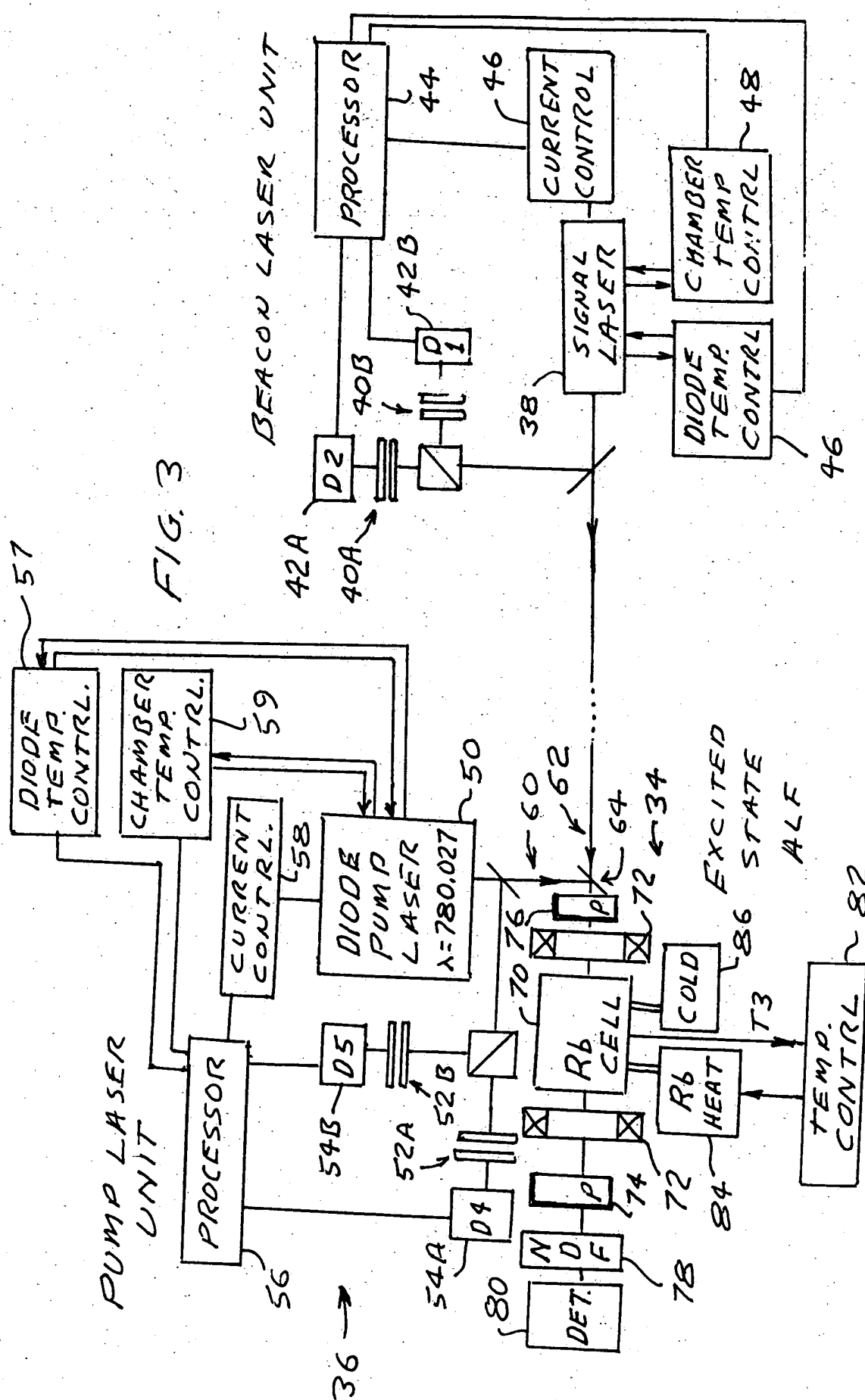


FIG. 3A

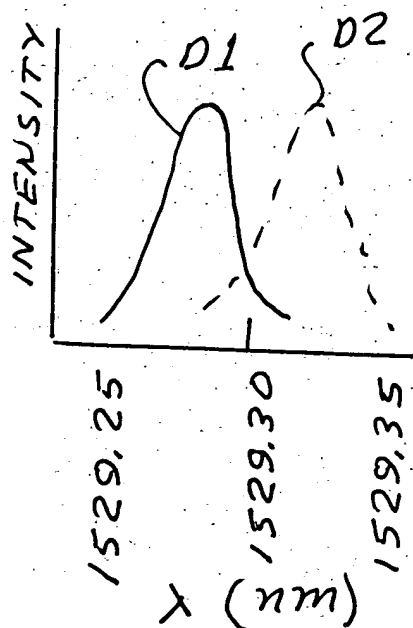


FIG. 3B

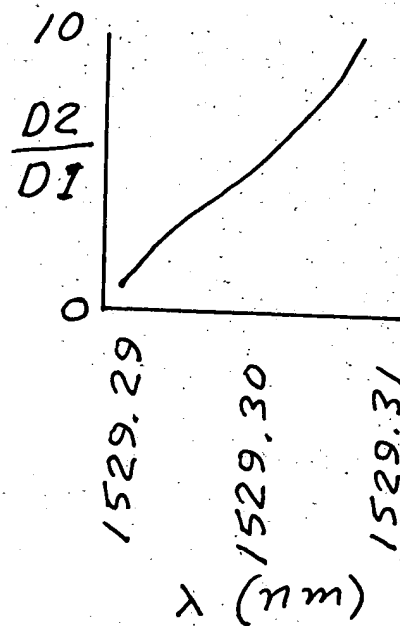


FIG. 3C

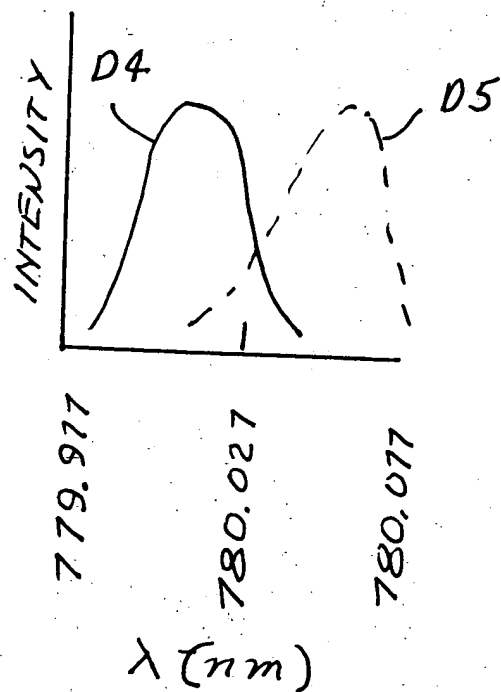
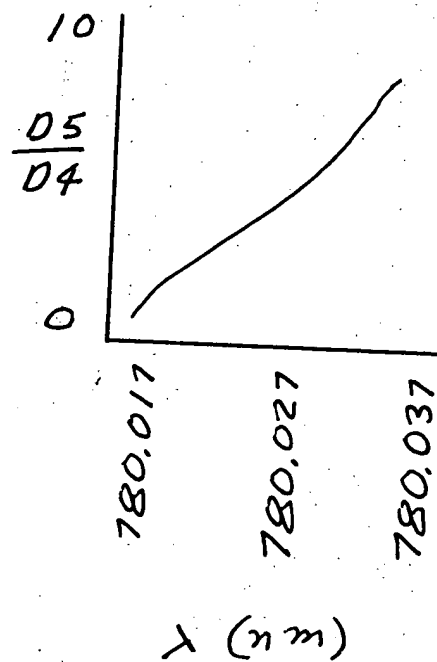


FIG. 3D



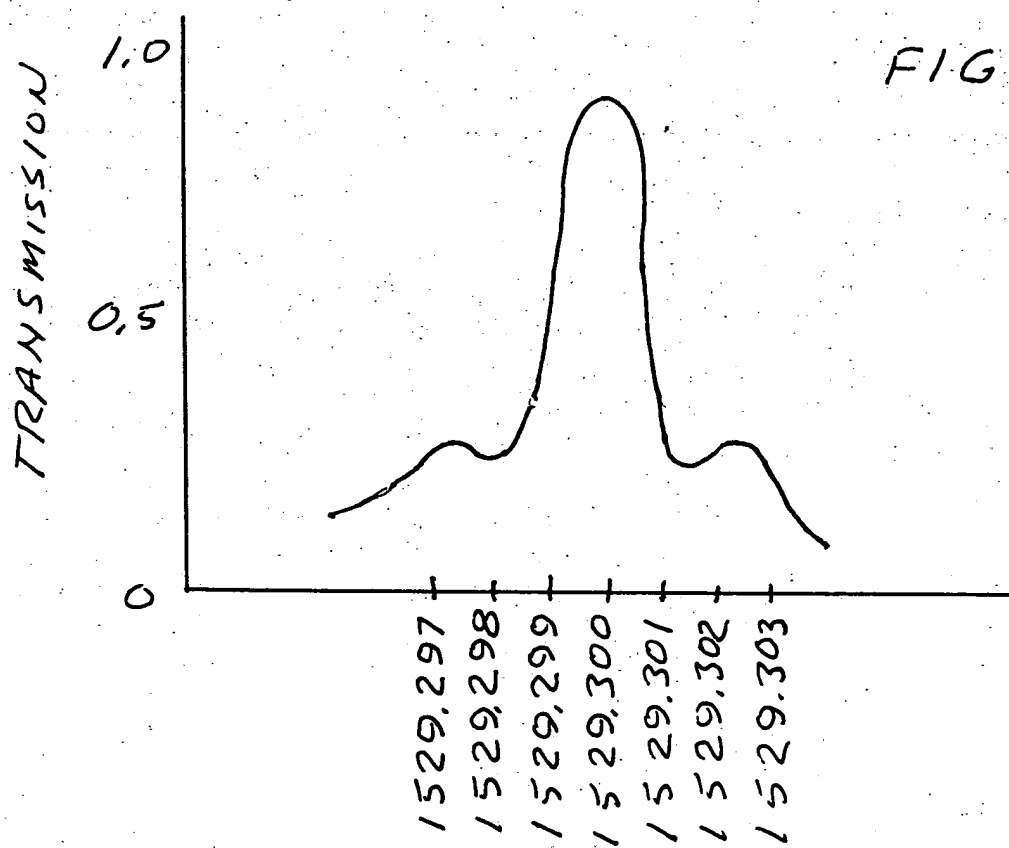
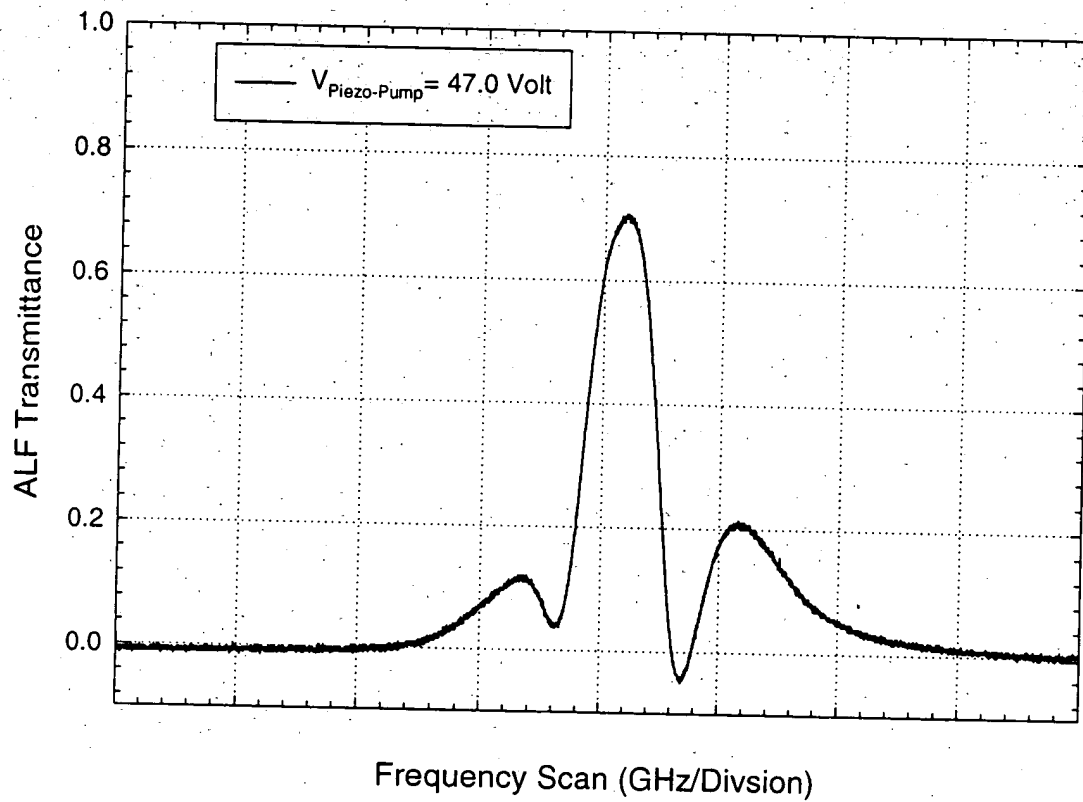


FIG. 3E

Rb Atomic Line Filter at 1529.3 nm



Rb vapor temperature: 120 °C
Rb cell length: 1 cm
Magnetic field Strength: 140 Gauss
Pump laser Wavelength: 780.24 nm (vacuum)
Pump power: 10.8 mW
Pump laser effective area: 0.778 mm²

FIG. 4

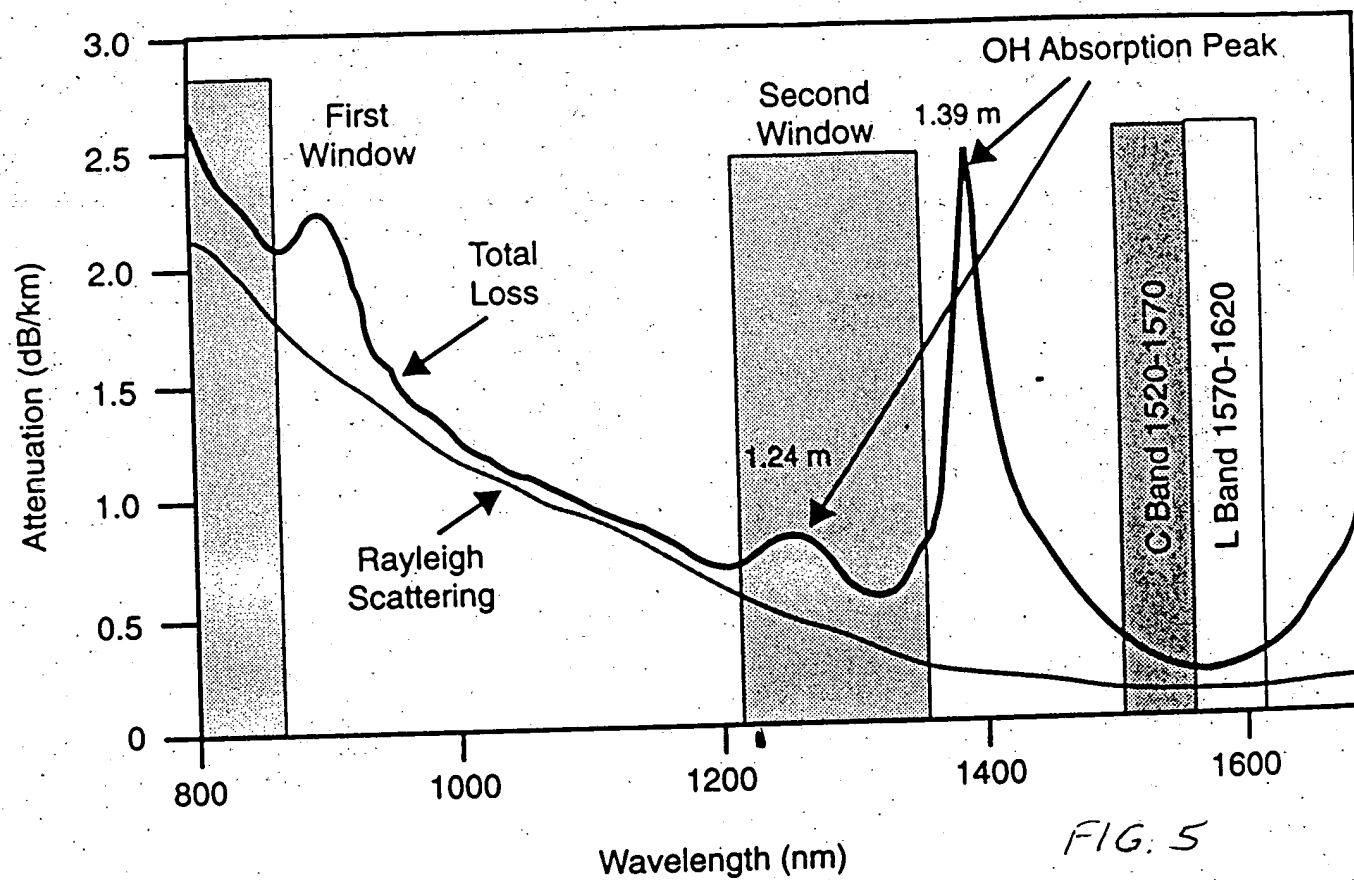


FIG. 5

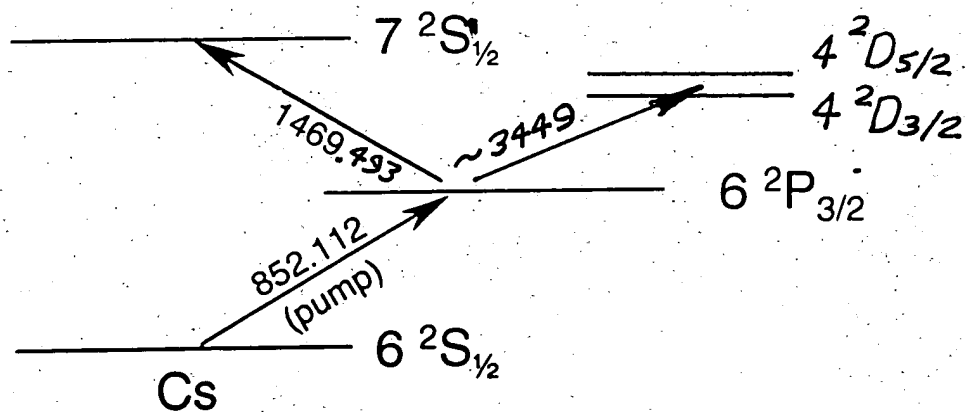


FIG. 6A

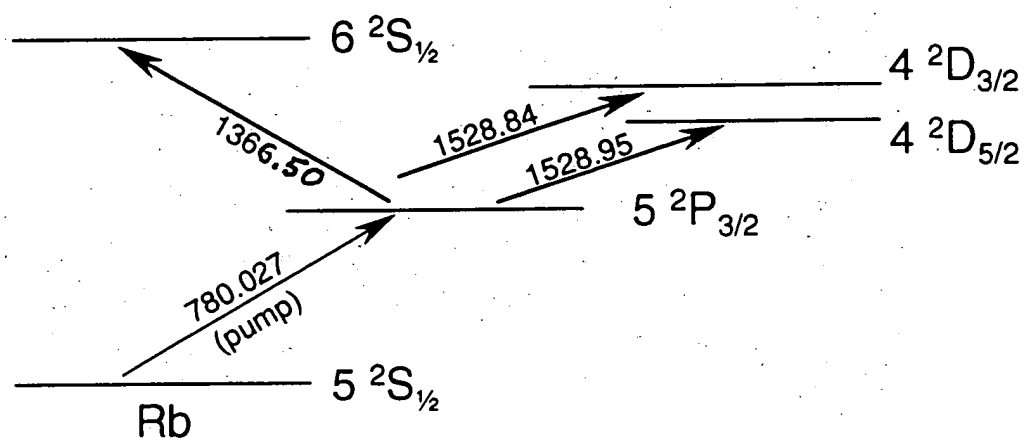


FIG. 6B

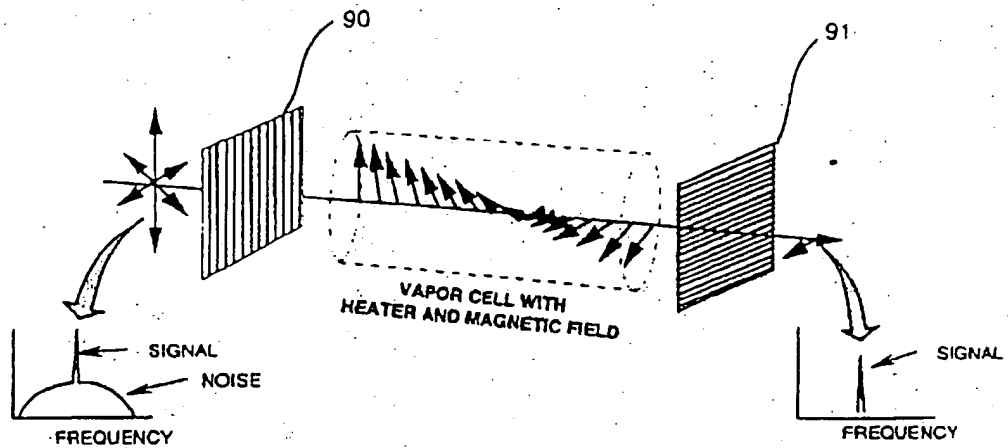


Fig. 7B

Fig. 7A

Fig. 7C

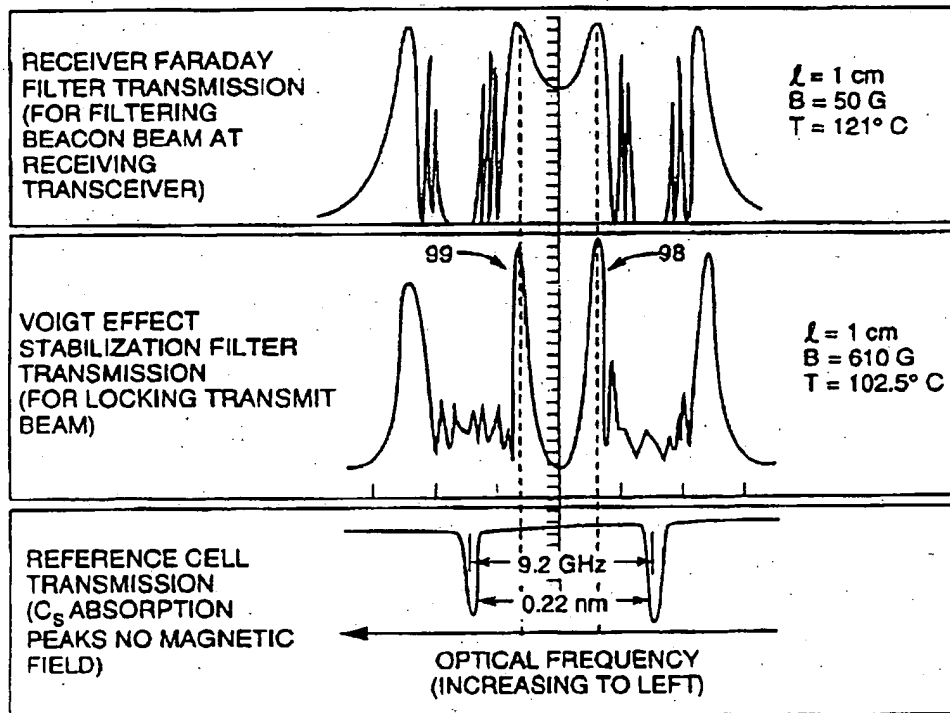
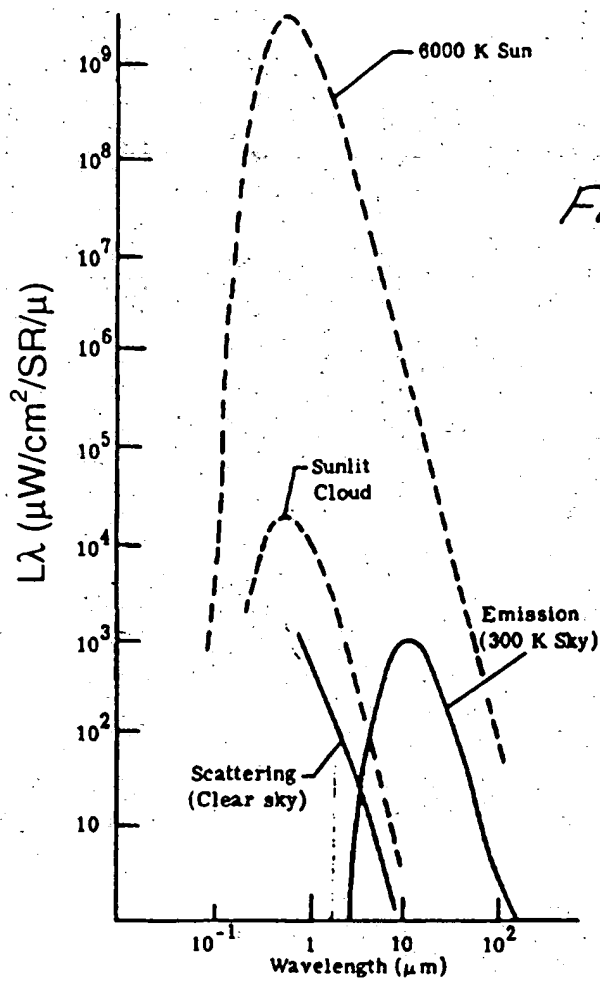


Fig. 8A

Fig. 8B

Fig. 8C



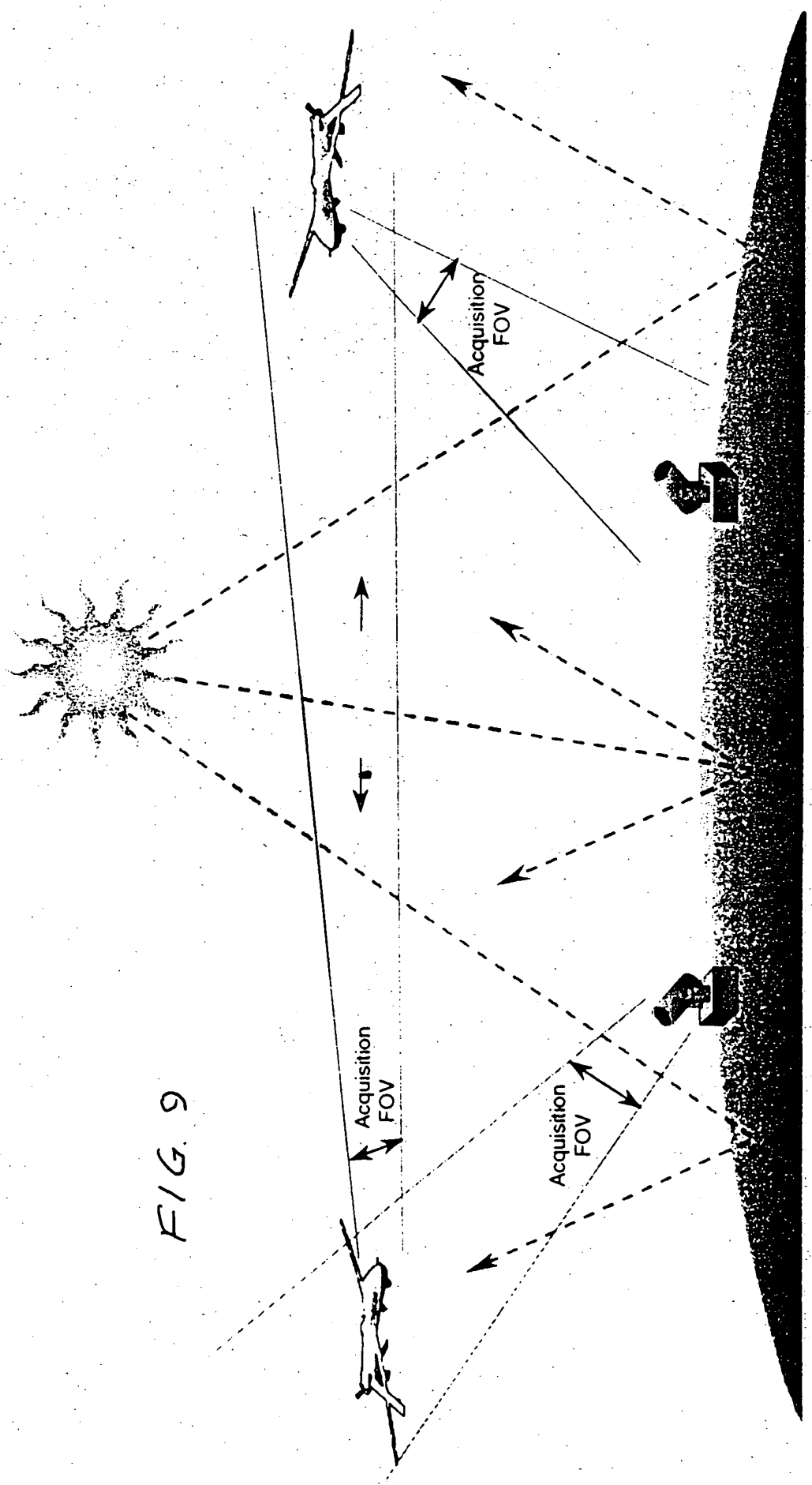


FIG. 9

FIG. 10A

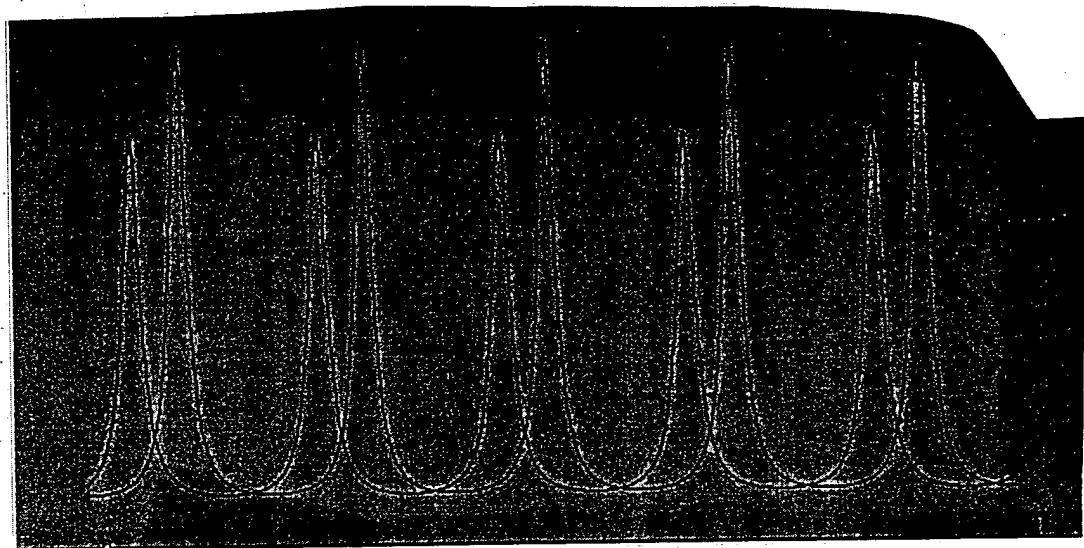


FIG. 10B

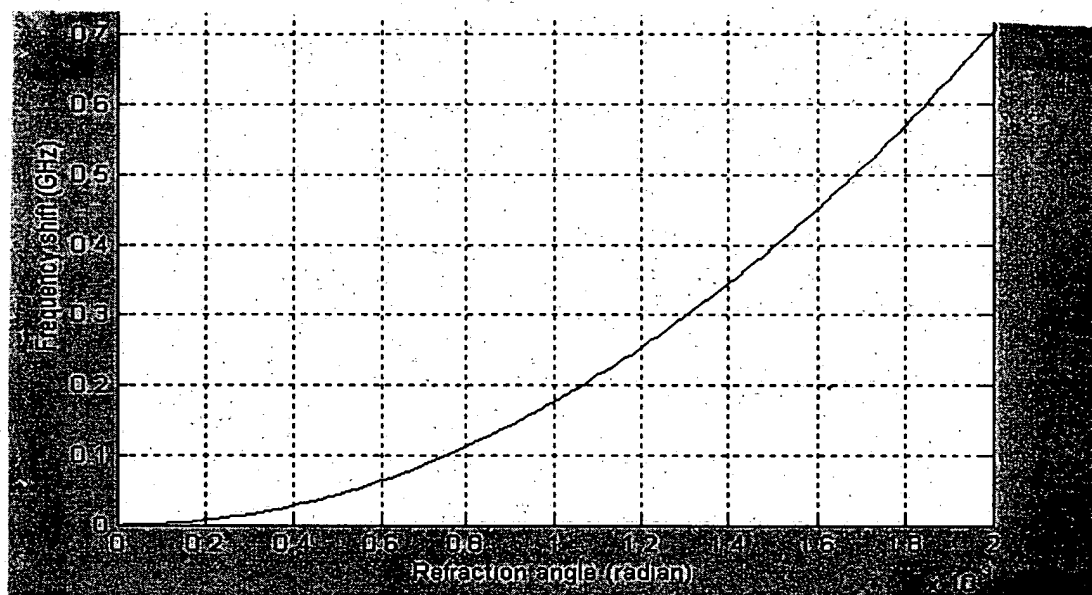


FIG. 10C



